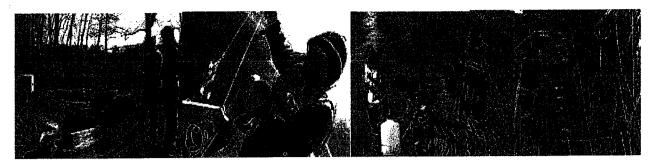
EXHIBIT 3

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Dr. Indrajeet Chaubey



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Updates:

Publications

Summary of Publications

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Refereed Journal Articles (published or in print):

- 1. Mutlu, E., I. Chaubey, H. Hexmoor, and S.G. Bajwa. 2008. Comparison of artificial neural network models for hydrologic predictions at multiple gauging stations in an agricultural watershed. *Hydrological Processes (In Press)*.
- 2. Quansah, J.E., B.E. Engel, and I. Chaubey. 2008. Tillage practices usage in early warning prediction of atrazine pollution. *Transactions of the ASABE 51(4): (In Press).*
- 3. Singh, N., S.G. Bajwa, and I. Chaubey. 2008. Removal of surface reflectance from above-water visible-near



- infrared spectroscopic measurements. Applied Spectroscopy 62(9): (In Press).
- 4. Pennington, J.H., M.S. Steele, K.A. Teague, B. Kurz, E. Gbur, J.H. Popp, H. German Rodriguez, I. Chaubey, M. Gitau, and M.A. Nelson. 2008. Breaking ground: a cooperative approach to data collection from an initially uncooperative population. *Journal of Soil and Water Conservation 63(2): (In Press)*.
- Leh, M.D., I. Chaubey, J. Murdoch, J.V. Brahana, and B.E. Haggard. 2008. <u>Delineating runoff processes and critical runoff areas in a pasture watershed of the Ozark Highlands</u>. *Hydrological Processes DOI:10.1002/hyp.7021*.
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- 10. Migliaccio, K.W. and I. Chaubey. 2007. <u>Multi-site and multi-variable calibration and validation of watershed models Comment</u>. *Hydrological Processes* 21:3226-3228. DOI:10.1002.hyp.6491.
- 11. Chaubey, I. and M. Matlock. 2007. Teaching undergraduate students to manage aquatic ecosystems at the watershed level: an ecological engineering approach. *International Journal of Engineering Education 23* (4):723-727.
- Sudheer, K.P., I. Chaubey, V. Garg, and K.W. Migliaccio. 2007. <u>Impact of time scale of calibration objective function on the performance of watershed models</u>. *Hydrological Processes* 21:3409-3419. DOI:10.1002/hyp.6555.
- 13. Chaubey, I. D. Sahoo, B.E. Haggard, M.D. Matlock, and T.A. Costello. 2007. <u>Nutrient retention, limitation</u>, and sediment interactions in a pasture dominated stream. *Transactions of the ASAE 50(1):35-44*.
- 14. Sen, S., B.E. Haggard, I. Chaubey, K.R. Brye, T.A. Costello, and M.D. Matlock. 2007. Sediment phosphorus release at Beaver Reservoir, northwest Arkansas, 2002-3. Air, Soil, and Water Pollution 179:67-77.
- 15. Migliaccio, K.W., I. Chaubey, and B.E. Haggard. 2007. Evaluation of landscape and instream modeling to predict watershed nutrient yields. *Environmental Modeling and Software 22(7): 987-999*.
- Sudheer, K.P., I. Chaubey, and V. Garg. 2006. Lake water quality assessment from Landsat TM data using neural network: An approach to optimal band combination selection. Journal of the American Water Resources Association 42(6):1683-1695.
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- 18. Shirmohammadi, A., I. Chaubey, R.D. Harmel, D.D. Bosch, R. Munoz-Carpena, C. Dharmasri, A. Sexton, M. Arabi, M.L. Wolfe, J. Frankenberger, C. Graff, and T.M. Sohrabi. 2006. <u>Uncertainty in TMDL models</u>. *Transactions of the ASABE 49(4):1033-1049*.
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- 28. Haggard, B.E., P.A. Moore, Jr., I. Chaubey, and E.H. Stanley. 2003. <u>Nitrogen and phosphorus concentrations and export from Ozark Plateau watersheds: possible effect of land use on reservoir nutrient loading</u>. *Journal of Biosystems Engineering 86(1): 75 85*.
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- 1. Chaubey, I., D. Sahoo, B.E. Haggard, K.L. White, and M. Matlock. 2003. Assessment of nutrient retention in an agriculturally dominated stream. *Proc. AWRC Annual Conference*.
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- 3. White, K.L., I. Chaubey, and M.A. Nelson. 2002. Phosphorus SWAT modeling in the Arkansas Portion of the Illinois River drainage Area. Proc. AWRC Conference on "Adequate Quality Water Supplies to Meet Our Growing Needs: Scientific, Regulatory, and Public Perspectives".
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- Chaubey, I. and K.P. Sudheer. 2005. A framework to stochastically evaluate watershed models. Proc. 2nd Indian International Conference on Artificial Intelligence Applications. B. Prasad (ed.). pp 1095-1109. Invited.
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 modeling to estimate animal waste pollution potential. P.K. Bollich (ed.). *In Proc.* Agricultural Water Quality
 and Quantity: Issues for the 21st Century. 136-143.
- 8. Chaubey, I., D.R. Edwards, T.C. Daniel and P.A. Moore, Jr. 1995. Buffer strips to improve quality of runoff from land areas treated with animal manures. Kenneth Steele (ed.). *In Proc. Animal Waste and Land Water Interface*: 363-370.

Invited Seminars:

National/International Conferences:

- 1. "Can agricultural production and ecosystem integrity coexist: results from agricultural watersheds in USA". I. Chaubey. 10th Inter-Regional Conference on Water Resources. New, Delhi, India. October 17- 20, 2007.
- 2. "A framework to stochastically evaluate watershed models". I. Chaubey. 2nd Indian International Conference on Artificial Intelligence Applications. Pune, India. December 20-22, 2005.
- 3. "Integrated ecosystem management: research advances, opportunities, and challenges in 21st Century". I. Chaubey. Indian Agricultural Research Institute, New Delhi. December 13, 2005.
- 4. "Identifying runoff source areas in a pasture dominated watershed". 2005. I. Chaubey. Annual International Conference of the Soil and Water Conservation Society. Rochester, NY. August 2, 2005.
- 5. "Eucha/Spavinaw Phosphorus Index". 2004. Daniel, T.C. and I. Chaubey. SERA-17 Annual International Conference. New Bern, NC. June 20-22
- 6. "Integrating physical, chemical, and biological response monitoring for watershed management: stream reach to watershed scale processes and lessons". Chaubey, I., M.D. Matlock, and B.E. Haggard. 2003 ASA-CSSA-SSSA Annual International Meeting. Denver, Colorado, November 2 6.
- 7. "Engaging stakeholders in watershed management process using a decision support system". M.D. Matlock, I. Chaubey, B.E. Haggard, and T.A. Costello. 2003 ASA-CSSA-SSSA Annual International Meeting. Denver, Colorado, November 2 6.
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Regional:

- 1. Chaubey, I. 2007. Nutrient limitation, nutrient retention, and sediment nutrient interactions in an agriculturally dominated watershed. *Hydraulics Group Seminar Series, Purdue University. March 5, 2007.*
- 2. Chaubey, I. 2007. Optical modeling of remote sensing reflectance for water quality assessment. Civil Engineering Department. September 19, 2007.
- 3. Chaubey, I. 2007. Computing needs in watershed hydrology and modeling. CRI Luncheon Discussion, Purdue University. December 7, 2007.
- 4. "Mathematical modeling of watershed processes". Chaubey, I. Public Policy Symposium. Little Rock, AR. November 17, 2006.
- 5. "Modeling approaches to evaluate watershed and water quality processes". Chaubey, I. Upper White River Water Quality Conference. Branson, MO. April 6, 2006.
- 6. "Water quantity/quality issues in the L'Anguille River watershed. Chaubey, I. Arkansas Soil and Water Education Conference. Arkansas State University, Jonesboro. January 12, 2006.
- 7. "Development of a Decision Support System for Beaver Lake watershed". Chaubey, I. Northwest Arkansas Water Quality Symposium, Rogers, AR. March 22, 2005.
- 8. "Water resources, sustainable agriculture, and economic development in Arkansas: an Ecological Engineering solution". Chaubey, I. Rural Friendship Development Day conference. Fayetteville, AR. August 12, 2004.
- 9. "Beaver Lake watershed decision support system (BLWDSS)". Chaubey I., S. Panda, K.L. White, M. Matlock, B. Haggard, and T.A. Costello. 2004 Arkansas Water Resources Center Conference. Fayetteville, April 20-21, 2004.
- 10. "Uncertainty analyses in hydrologic/water quality models". Chaubey, I. Environmental Dynamics Colloquium,

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- 13. "Release of Phosphorus from Stream and Reservoir Sediment: Effect of Chemical Amendments". Haggard, B.E., S.A. Ekka, M. Matlock, P.A. Moore, jr., and I. Chaubey. 2003 Arkansas Water Resources Conference Center Conference on Quality Water Resources to Meet Our Competing Needs. Fayetteville, AR. April 22 23.
- 14. "Total maximum daily loads". Phosphorus Management Workshop. Division of Agriculture, University of Arkansas. October 15, 2002.
- 15. "Quantification of runoff and nutrient load predction uncertainty due to GIS data resolution". 2002 Annual Arkansas Water Resources Center Conference. April 23-24, 2002.
- 16. SWAT Modeling of the Illinois River Drainage Area in Arkansas". K.L. White*, I. Chaubey, and M.A. Nelson. 2002 Annual Arkansas Water Resources Center Conference. April 23-24, 2002.
- 17. "Stream Nutrient Retention in the Illinois River, Northwest Arkansas: Ecological Services and Water-Quality Criteria". B.E. Haggard, M. Matlock, and I. Chaubey. 2002 Annual Arkansas Water Resources Center Conference. April 23-24, 2002.
- 18. "Nonpoint Source Pollution and Water Quality: Issues and Opportunities". Allahabad Agricultural Institute (Deemed University), India. May 22, 2001.
- 19. "Radar measurement of rainfall: application in hydrology/water quality modeling". Center for Freshwater Studies, University of Alabama, Tuscaloosa, November 13, 1997.
- 20. "Analysis of input errors in water quality modeling". Cahaba/Warrior Student Chapter of AWRA, Tuscaloosa, February 26, 1998.

Technical Papers/Proceedings presented at national/international conferences:

- Maringanti, C., I. Chaubey, and B. Engel. 2008. Development of a multi-objective optimization tool for the selection and placement of BMPs for pesticide control. Paper No. 083536, Annual Conference of the ASABE, Providence, RI.
- 2. Leh, M.D., S.G. Bajwa, I. Chaubey, and J. Cothren. 2008. A remote sensing methodology of delineating stream channel morphology. Paper No. 083734, Annual Conference of the ASABE, Providence, RI.
- 3. Chiang, L., M. Gitau2, and I. Chaubey. 2008. Effectiveness of BMPs considering uncertainties in weather patterns in a pasture dominated watershed. Paper No. 083549, Annual Conference of the ASABE, Providence, RI.
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- 5. Cibin, R., K.P. Sudheer, and I. Chaubey. 2008. Global sensitivity analysis of distributed hydrologic models. Paper No. 084910, Annual Conference of the ASABE, Providence, RI.
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- 8. Chaubey, I., C. Maringanti, B.K. Schaffer, and J.H. Popp. 2008. Targeting vs. optimization: Critical evaluation of BMP implementation plan for watershed management. EWRI World Environmental and Water Resources Congress, Honolulu, HI. May 12-16, 2008.
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- 9. Gitau, M.W., L. Chiang, I. Chaubey, and M. Sayeed. 2008. Evaluating BMP scenario under CEAP: approaches to handling a multitude of runs and large datasets. *Annual Conference of the USDA-CSREES*. Sparks, NV. February 4 7, 2008.
- 11. Chaubey, I. and V. Garg. 2007. Estimation of inherent optical properties of lake water using inverse modeling. Paper No. 072100, ASABE, St. Joseph, MI.
- 12. Maringanti 1, C., I. Chaubey, J. Popp, and M. Gitau. 2007. Development of a multi-objective optimization tool for the selection and placement of BMPs for nonpoint source pollution control. Paper No. 072105, ASABE, St. Joseph, MI.
- 13. Gitau, M.W., R. Srivastava1, and I. Chaubey. 2007. Watershed response modeling in Arkansas Priority Watersheds: experience with SWAT autocalibration. Paper No. 072171, ASABE, St. Joseph, MI.
- 14. Schaffer1, B.K. and I. Chaubey. 2007. Development of a method to produce a targeted management plan using a physical process watershed model and economic optimization to meet TMDL requirements. Paper No. 072181, ASABE, St. Joseph, MI.
- 15. Migliaccio, K.L., I. Chaubey, and K.P. Sudheer. 2007. Conducting multi-site calibration for watershed models. Paper No. 072209, ASABE, St. Joseph, MI.
- 16. Gitau, M.W., I. Chaubey, R. Srivastava, and M.A. Nelson. 2007. Effectiveness of BMPs in reducing pollutant losses from a northwest Arkansas Agricultural watershed. Paper No. 072244, ASABE, St. Joseph, MI.
- 17. Chaubey, I., B.K. Schaffer, E. Vories, P. Tacker, J.H. Popp, and G. Rodriguez. 2007. A decision support system framework for integrated agricultural watershed management. *Annual Conference of the USDA-CSREES. Savannah, GA.* January 28-31, 2007.
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- 19. Chaubey, I., M.D. Leh, J.V. Brahana, and B.E. Haggard. 2006. Where does runoff come from? A monitoring and modeling approach. Proc. An International Perspective on Environmental and Water Resources, eds. U.P. Singh, B. Datta, B. Panigrahi, and M. Sharma. New Delhi, India. December 18-20, 2006.
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- 21. Chaubey, I. M. Gitau, D. Ennannay, M. Nelson, E. Gbur, J. Popp, and J. Pennington. 2006. Effectiveness and optimization of BMPs in improving water quality impacted by land application of animal manure. Abstract published in the proceedings of the Workshop "Managing Agricultural Landscapes for Environmental Quality: Strengthening the Science Base". Kansas City, MO. October 11-13, 2006. 71 p.

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- Chaubey, I., P. Tacker, E. Vories, and B.K. Schaffer. 2006. Development of a decision support system for integrated water quality management in Arkansas Delta. World Congress of Computers and Electronics in Agriculture. Orlando, FL.
- 26. Lakshmi, G., K.P. Sudheer, and I. Chaubey. 2006. Autocalibration of complex watershed models using simulation optimization framework. ASABE Paper No. 06-2141. 2006 Annual International Conference of the ASABE. Portland, OR.
- 27. Chaubey, I., M. Leh, V. Brahana, and B.E. Haggard. 2006. Quantification of spatial distribution of runoff source areas in an agricultural watershed. ASABE Paper No. 06-2126. 2006 Annual International Conference of the ASABE. Portland, OR.
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- 29. Chaubey, I., E. Gbur, B. Kurz, M. Nelson, J. Popp, M. Steele, and K. Teague. 2006. Effectiveness and optimization of BMPs in improving water quality from an agriculturally dominated watershed. USDA-CSREES National Water Quality Conference. San Antonio, TX.
- 30. Chaubey, I., E. Vories, and P. Tacker. 2006. Integrated BMP assessment for improving water quality in a rice/soybean dominated watershed in the Arkansas Delta. USDA-CSREES National Water Quality Conference. San Antonio, TX.
- 31. Schaffer, B.K. and I. Chaubey. 2005. Development of a dynamic decision tool for an impaired watershed in the Arkansas Delta using Soil and Water Assessment Tool model. Annual Conference of the American Water Resources Association, Seattle, WA.
- 32. Srivastava, R. and I. Chaubey. 2005. Comparison of sediment prediction ability of the AnnAGNPS and the SWAT model for the West Fork of the White River. Annual Conference of the American Water Resources Association, Seattle, WA.
- 33. Leh, M.D., I. Chaubey, J. Murdock, and J.V. Brahana. 2005. Quantification of runoff-contributing areas in a pasture watershed a field scale approach. Annual Conference of the American Water Resources Association, Seattle, WA.
- 34. Chaubey, I., S. Panda, K.L. White, and M. Matlock. 2005. Decision Support System Development for Beaver Lake Watershed management an environmental informatics approach. ASAE paper No. 052199. 2005 Annual International Conference of ASAE, Tampa, Florida.
- 35. Garg, V. and I. Chaubey. 2005. Optical modeling of hyperspectral remote sensing signals to assess water quality. ASAE paper No. 052003. 2005 Annual International Conference of ASAE, Tampa, Florida.
- 36. V. Vibhava, S.G. Bajwa, and I. Chaubey. 2005. Hydrologic modeling of L'Anguille watershed using Soil and

- 37. Chaubey, I., and K.L. White. 2005. Influence of hydrologic response unit (HRU) distribution on SWAT model flow and sediment predictions. Proc. Watershed Management to Meet Water Quality Standards and Emerging TMDL. ASAE, St. Joseph, MI. pp. 283-289.
- 38. Brahana, J.V., T.E. Ting, M. Al-Qinna, J.F. Murdoch, R.K. Davis, J.L. Killingbeck, E. Szilbagyi, M. Doneny-Skubic, I. Chaubey, P.D. Hays, and G. Thoma. 2005. Quantification of hydrologic budget parameters for the vadose zone and epikarst in mantled karst. USGS Karst Interest Group Proceedings, Rapid City, SD. Pp. 144-152.
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- 40. Vories, E., I. Chaubey, P. Tacker, and B.K. Schaffer. 2005. Development of an integrated water quality-water management program in the Arkansas Delta. USDA-CSREES National Water Quality Conference. San Diego, CA.
- 41. Chaubey, I., D. Sahoo, B.E. Haggard, M. Matlock, T.A. Costello, and K.L. White. 2005. Integrated assessment of BMPs, nutrient transport, and water quality in an agriculturally dominated stream. First International Conference on Environmental Science and Technology. American Academy of Sciences. New Orleans, LA.
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